

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P555381

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-86-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P555381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FUSL-12-2-LD4-3HI-30-UNV-80-86-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

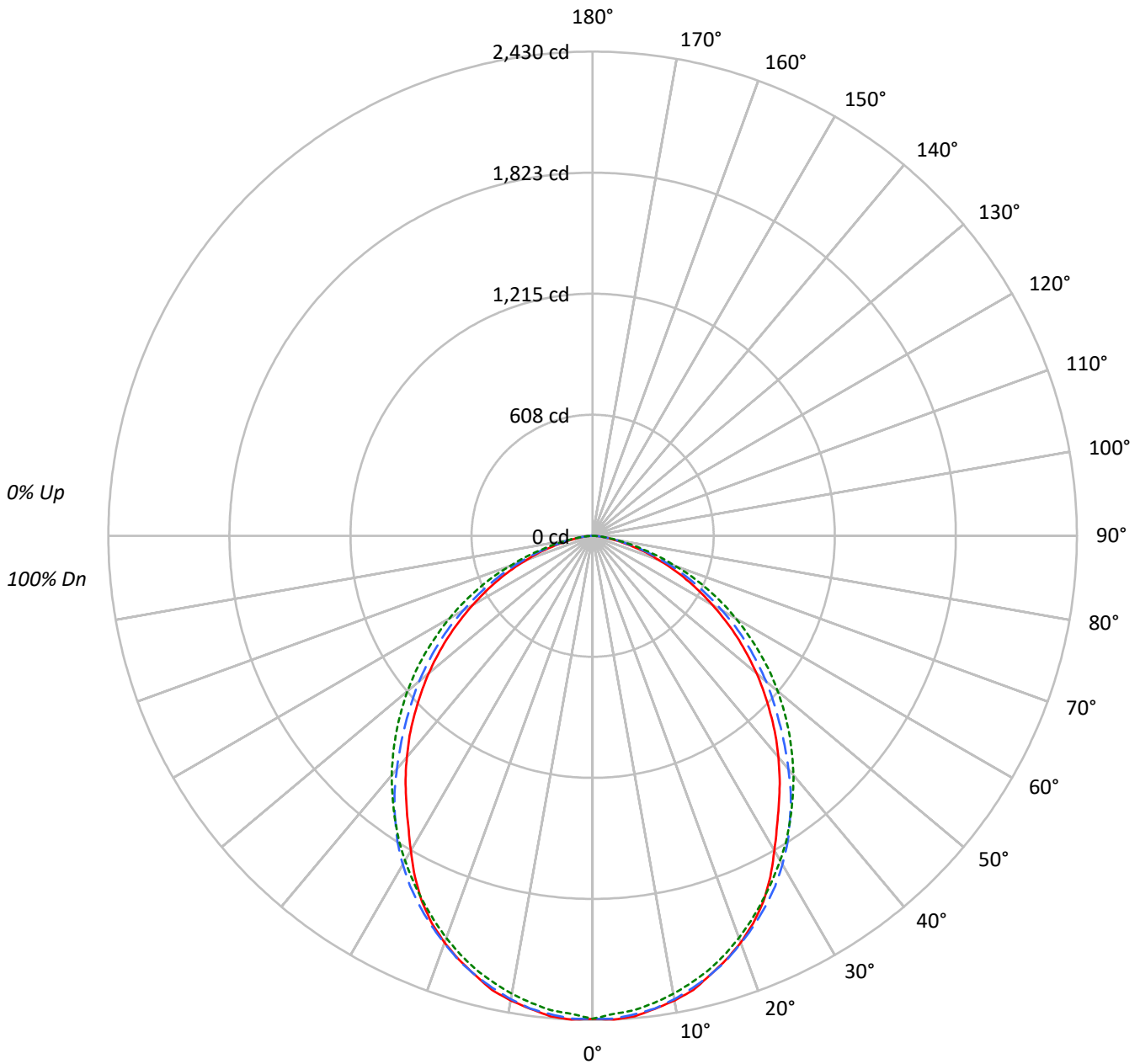
Lumens per Lamp: N/A  
Luminaire Lumens: 5605.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13046	13046	13046
5°	13081	13025	12915
10°	12942	12906	12759
15°	12712	12712	12567
20°	12443	12459	12299
25°	12033	12182	11989
30°	11332	11841	11696
35°	10707	11350	11368
40°	10186	10737	11018
45°	9604	10086	10603
50°	8990	9505	10152
55°	8292	8843	9603
60°	7468	8069	8931
65°	6594	7175	8124
70°	5495	6110	6902
75°	4319	4880	5402
80°	3087	3434	3809
85°	2013	2013	1896



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.2	4.1
10°-20°	641.2	11.4
20°-30°	936.9	16.7
30°-40°	1063.5	19.0
40°-50°	1026.7	18.3
50°-60°	846.9	15.1
60°-70°	564.0	10.1
70°-80°	252.4	4.5
80°-90°	45.1	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1806.3	32.2
0°-40°	2869.9	51.2
0°-60°	4743.5	84.6
0°-90°	5605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2424	2424	2424	2424	2424	
5°	2421	2420	2411	2398	2390	229
15°	2282	2287	2282	2271	2256	643
25°	2026	2042	2052	2037	2019	928
35°	1630	1652	1728	1737	1730	1021
45°	1262	1283	1325	1386	1393	974
55°	884	899	942	995	1023	789
65°	518	532	563	603	638	513
75°	208	219	235	246	260	227
85°	33	33	33	31	31	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2424.0	2424.0	2424.0	2424.0	2424.0
2.5°	2430.5	2431.5	2425.9	2411.0	2401.7
5°	2421.2	2420.3	2411.0	2397.9	2390.5
7.5°	2394.2	2396.1	2393.3	2374.7	2364.4
10°	2368.1	2369.1	2361.6	2346.7	2334.6
12.5°	2334.6	2333.7	2323.4	2316.0	2296.4
15°	2281.5	2287.1	2281.5	2271.3	2255.5
17.5°	2230.3	2230.3	2234.0	2216.4	2204.2
20°	2172.6	2175.4	2175.4	2161.4	2147.4
22.5°	2105.5	2113.9	2116.7	2101.8	2085.0
25°	2026.4	2042.2	2051.5	2036.6	2018.9
27.5°	1930.5	1954.7	1982.6	1971.4	1951.9
30°	1823.4	1858.8	1905.3	1896.0	1882.0
32.5°	1721.9	1757.2	1821.5	1817.8	1810.3
35°	1629.7	1652.0	1727.5	1736.8	1730.2
37.5°	1542.1	1562.6	1633.4	1654.8	1649.2
40°	1449.9	1472.3	1528.2	1566.3	1568.2
42.5°	1358.7	1380.1	1425.7	1480.7	1480.7
45°	1261.8	1283.2	1325.2	1385.7	1393.1
47.5°	1166.8	1189.2	1230.2	1290.7	1302.8
50°	1073.7	1094.2	1135.2	1193.8	1212.5
52.5°	976.9	999.2	1039.3	1093.3	1120.3
55°	883.7	898.6	942.4	994.6	1023.4
57.5°	786.9	800.9	850.2	894.9	924.7
60°	693.8	711.5	749.6	795.3	829.7
62.5°	604.4	623.0	655.6	695.6	734.7
65°	517.8	531.7	563.4	603.4	637.9
67.5°	434.0	446.1	477.7	505.7	542.0
70°	349.2	365.0	388.3	415.3	438.6
72.5°	281.2	287.8	307.3	326.9	351.1
75°	207.7	218.8	234.7	245.8	259.8
77.5°	149.0	155.5	164.8	174.1	187.2
80°	99.6	102.4	110.8	112.7	122.9
82.5°	60.5	62.4	64.3	65.2	68.9
85°	32.6	32.6	32.6	30.7	30.7
87.5°	18.6	18.6	15.8	13.0	9.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)